

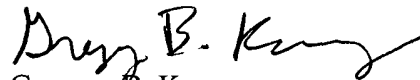
REMARKS

Claims 1-21 are pending. The attached Appendix includes marked-up copies of the rewritten paragraph (37 C.F.R. §1.121(b)(iii)). The amendment to the paragraph is offered in order to correct a typographical error and does not introduce any new matter.

No fee is due in connection with the submission of this amendment. However, any extension of time necessary to prevent abandonment is hereby requested, and any fee necessary for consideration of this response is hereby authorized to be charged to Deposit Account No. 50-0436.

Respectfully submitted,

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Attachment:
Appendix

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APPENDIX

Changes to the Specification:

The following is a marked-up version of the amended paragraphs:

[0038] If the concentration of a pollutant is uniformly distributed along the path length L and the atmosphere has only one absorbing species, then the equation becomes:

$$\ln(I/I_0) = -kcL$$

where I is the source light intensity, I_0 is the detected light intensity, and kcL is the concentration of the component being measured. When the atmosphere has more than one absorbing species and the path length is not uniform, then the equation can be written as:

$$\ln(I/I_0) = \sum_i -k_i(v_1) [3] \sum c_i(v,y)dy$$

where i species are mixed in the plume with varying concentrations c_i across the plume's width y . The instrument preferably uses a spectral library and this equation to calculate the absorbance and concentration of each species.